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Docket No. 2001-067-TAP

ABSTRACT OF THE DISCLOSURE

BARCODE SINGLE LASER SCANNER TARGETING

A robot apparatus and a barcode scanner to be used 5 for collecting positional data parallel to the scan direction in, for example, a library storage system is provided. In one embodiment, the robotic apparatus includes a barcode scanner having a scan path and an 10 attenuation surface within the scanner scan path. The barcode scanner scans the target while the robotic apparatus is moved in a direction parallel with the scan path. Positional data is collected in conjunction with the readability limits of the barcode target. central position of the target in a parallel direction to the scan path is determined based on the readability of the barcode target and the correlating positional data. The barcode scanner can also scan the target while the robotic apparatus is moved in a direction perpendicular with the scan path. Positional data is collected in 20 conjunction with the readability limits of the barcode target. The central position of the target in a perpendicular direction to the scan path is determined based on the readability of the barcode scanner and the 25 correlating positional data.